SECTION S205 - PAVEMENT BASE REPAIR, PAVEMENT REPLACEMENT

S205-1 DESCRIPTION

Work consists of repair of small sections of existing pavement base, or replacement of existing pavement section over utility trenches, as required in Contract Documents and as directed by Project Manager.

For purposes of this specification, all references are in accordance with NYSDOT Standard Specifications (US Customary Units dated May 1, 2008) edition, including any addenda.

S205-2 MATERIALS

S205-2.01 Select Granular Fill

Select granular fill is to be in accordance with NYSDOT Section 203 Excavation and Embankment.

S205-2.02 Subbase Course

Subbase course is to be subbase course type 1 and type 2 in accordance with NYSDOT Section 304 Subbase Course.

S205-2.03 Asphalt

Asphalt is to be 80 series compaction, 9.5 F2 top course HMA, 19 F9 binder course HMA, and 37.5 F9 base course HMA, in accordance with NYSDOT Section 402 Hot Mix Asphalt (HMA) Pavements.

S205-2.04 Tack Coat

Tack coat is to be diluted or straight tack coat mix in accordance with Section S407 Tack Coat.

S205-2.05 Concrete

Concrete is to be PCC foundation for pavement, class C or class F, in accordance with NYSDOT Section 503 Portland Cement Concrete Foundation for Pavement.

S205-2.06 Pavement Saw Cut

Pavement saw cut is to be full depth pavement saw cut in accordance with Section R622 Saw Cutting.

S205-3 CONSTRUCTION DETAILS

S205-3.01 General

Pavement base repair items are generally used in conjunction with street rehabilitation projects, to repair small sections of existing pavement where base has failed.

Pavement replacement items are generally used in conjunction with street curb only projects, to restore pavement sections that have been removed for installation of underground utilities, or to replace areas of existing pavement that fall outside of normal limits of curb only replacement section.

Outer limits of repair/replacement areas will be as required in Contract Documents, and as approved by Project Manager.

Outer limits of existing pavement area are to be saw cut full depth with concrete saw. Saw cut edge is to be clean, dry and shaped so that square shoulder is provided in direction of traffic. Existing pavement is to be excavated to neat lines, removed and properly disposed of.

All materials are to be properly compacted. For small areas, either hand operated vibrating tamper or power jumping jack may be used for compaction purposes.

Tack coat is to be applied on top of concrete base, and between all courses of HMA lifts.

S205-3.02 Pavement Base Repair

Area to be repaired is to be excavated to depth that is sufficient to remove existing failed base materials, and any underlying unsuitable materials.

Excavation is to be backfilled to bottom of pavement base material with select granular fill in 6 inch lifts compacted to no less than 95 per cent of Standard Proctor Maximum Density.

For concrete base repair pavement section, use minimum 8 inches concrete and 2 inches HMA binder course.

For asphalt base repair pavement section, use 8 or 6 inches HMA base course for commercial streets, and 3 inches HMA base course for residential streets and alleyways. HMA base course is to be topped with 2 inches HMA binder course.

S205-3.03 Pavement Replacement

Concrete pavement replacement section will be as noted in Contract Documents.

For asphalt base repair pavement section, use 5 inches subbase course type 1; 6 inches subbase course type 2; 8 or 6 inches HMA base course for commercial streets, 3 inches HMA base course for residential streets and alleyways. HMA base course is to be topped with 2 inches HMA binder course and 1-1/2 inches HMA top course.

S205-4 METHOD OF MEASUREMENT

Quantity to be measured for payment will be number of square yards of pavement base repaired, or pavement replaced.

For pavement base repair, maximum depth of repair area to be included in pay item will be 24 inches.

S205-5 BASIS OF PAYMENT

S205-5.01 Pavement Base Repair

Unit price bid includes cost of: full depth pavement saw cut; excavation and disposal of excavated materials; furnishing, placing and compacting select granular fill; class C or F PCC foundation, or HMA base course; HMA binder course; furnishing and placing tack coat; and furnishing all labor, material and equipment necessary to complete work.

For areas of pavement base repair that are more than 24 inches deep, additional excavation and select granular fill will be paid under separate bid items.

HMA top course will be paid under separate bid item.

S205-5.02 Pavement Replacement

Unit price bid includes cost of: full depth pavement saw cut; excavation and disposal of excavated materials; furnishing, placing and compacting subbase course type 1 and type 2; class C or F PCC foundation, or HMA base course; HMA binder course; HMA top course; furnishing and placing tack coat; and furnishing all labor, material and equipment necessary to complete work.

Payment will be made under:

ITEM NO.	ITEM	PAY UNIT
S205.0101	Pavement Base Repair – Concrete Base	Square Yard
S205.0201	Pavement Base Repair – Asphalt Base (8 inch)	Square Yard
S205.0202	Pavement Base Repair – Asphalt Base (6 inch)	Square Yard
S205.0301	Pavement Base Repair – Asphalt Base (3 inch)	Square Yard
S205.04	Pavement Replacement - Concrete Base	Square Yard
S205.05	Pavement Replacement - Asphalt Base (3 inch)	Square Yard
S205.06	Pavement Replacement - Asphalt Base (6 inch)	Square Yard
S205.07	Pavement Replacement - Asphalt Base (8 inch)	Square Yard